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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,992	07/15/2003	Steven Hefeneider	00-617-F	8235
75	90 02/10/2006		EXAM	INER
McDonnell Boehnen Hulbert & Berghoff			LI, RUIXIANG	
32nd Floor	-			
300 S. Wacker Drive			ART UNIT	PAPER NUMBER
Chicago, IL 60606			1646	
J			DATE MAILED: 02/10/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Astice Occurrence		10/619,992	HEFENEIDER ET AL.
	Office Action Summary	Examiner	Art Unit
		Ruixiang Li	1646
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
A SH WHIC - External - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depend for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on 30 No. This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Dispositi	ion of Claims		
5)	Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-6</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or fon Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access	r election requirement.	≅xaminer.
	Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Expression of the oath or declaration is objected to by the Expression of the oath or declaration is objected to by the Expression of the oath or declaration is objected to by the Expression of the oath or declaration is objected to by the Expression of the oath or declaration is objected to by the Expression of the oath or declaration is objected to be ob	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
12)[a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 12/05/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	

DETAILED ACTION

Status of Application, Amendments, and/or Claims

Applicants' amendment filed on 11/30/2005 has been entered in full. Claims 1-6 have been amended. Claims 1-6 are pending and under consideration.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

Withdrawn Objections and/or Rejections

The objection to the title of the application is withdrawn in view of the amendment to the specification.

Information Disclosure Statement

The information disclosure statement filed on 12/05/2005 has been considered by the Examiner.

Claim Rejections under 35 USC § 112, 1st paragraph

The rejection of claims 1-6 under 35 U.S.C. 112, first paragraph for scope of enablement is maintained because the specification, while being enabling for a human cell surface DNA receptor (DNA-R) set forth in SEQ ID NO: 2, a DNA binding fragment comprising amino acids 1-575 of the amino acid sequence of SEQ ID NO: 2, or a soluble human DNA-R with the amino acids 1133-1171 of SEQ ID NO: 2 are deleted.

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does not reasonably provide enablement for their derivatives. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

At page 5 of Applicants' response filed on 11/30/2005, Applicants argue that the claimed invention is limited to a homogenous composition or a cell membrane preparation having the amino acid sequence of SEQ ID NO: 2. Applicants submit that any potential derivative, like the original composition, is limited to a composition having the amino acid sequence of SEQ ID NO: 2.

Applicants' argument has been fully considered, but is not deemed to be persuasive because it is not clear whether the claims, as written, are limited to a composition having the amino acid sequence of SEQ ID NO: 2. If the claims are amended to clearly recite such a limitation for the composition, the rejection will be withdrawn.

Claim Rejections under 35 USC § 112, 2nd paragraph

The rejection of claims 1-6 under 35 U.S.C. 112, second paragraph is maintained.

At page 5 of Applicants' response filed on 11/30/2005, Applicants argue that Applicants have amended the claims to specify that the molecular weight are predicted from the amino acid sequence as set forth in the Sequence listing and do not account for any post -translational modifications. The Examiner notes that the amended claims have resolved this issue. However, the other issue raised in the previous action, which Art Unit: 1646

renders the claims indefinite, still remains. That is, it is unclear whether the recited limitation, "having a molecular weight ..." in each claim, limits DNA-R, its derivatives, or both, rendering the claim indefinite. It is also suggested that the claims be amended to provide the complete name for DNA-R, such as "a mammalian cell surface DNA receptor (DNA-R)".

Claim Rejections under 35 USC § 102 (b)

The rejection of claim 4 is rejected under 35 U.S.C. 102(b) as being anticipated by Fantin et al. (J. Biol. Chem. 273:10726-10732, 1998) or by Hefeneider et al. (J. Invest. Dermatol. 94:79S-84S, 1990) is maintained.

At the 3rd paragraph of page 6 of Applicants' response filed on 11/30/2005, Applicants argue that there is no evidence of record that membranes prepared according to the methods disclosed by Fantin et al. would contain a functional DNA-R as disclosed in the instant specification. Applicants' argument has been fully considered, but is not deemed to be persuasive because the human embryonic kidney 293 cells express the claimed cell surface DNA receptor and a membrane preparation from the human embryonic kidney 293 cells inherently comprises the claimed cell surface DNA receptor.

At the bottom of page 6 of Applicants' response filed on 11/30/2005, Applicants argue that Hefeneider et al. do not teach explicitly that the claimed DNA-R protein is indeed expressed in PBMC, nor do they teach that the claimed DNA-R protein is present in the membrane of PBMC. Applicants' argument has been fully considered, but is not

deemed to be persuasive because human peripheral blood mononuclear cells in nature

express the claimed cell surface DNA receptor and a membrane preparation from the

PBMC inherently comprises the claimed cell surface DNA receptor.

It is noted that once a reference teaching product appearing to be substantially identical

is made the basis of a rejection, and the examiner presents evidence or reasoning

tending to show inherency, the burden shifts to the applicant to show an unobvious

difference.

Conclusion

No claims are allowed.

THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the

extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

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Advisory Information

Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Ruixiang Li whose telephone number is (571) 272-0875.

The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00

pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brenda Brumback, can be reached on (571) 272-0961. The fax number for

the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, please contact the Electronic

Business Center (EBC) at the toll-free phone number 866-217-9197.

Russiang Li

Ruixiang Li, Ph.D. **Primary Examiner**

February 6, 2006